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(12) Patent:

(11) CA 263871

For a clearer understanding of the status presented on this page, the site Disclaimer, as well the definitions for Patent, Administrative Status and Maintenance Fee fields should be consulted.

Administrative Status:

Title	Date
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[Important Notices](#)

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The principal objects of the invention are to produce a panel sheet particularly adaptable to the manufacture of trunks which will be simple in construction, light in weight, strong, durable and inexpensive to manufacture.

The principal feature of the invention consists in forming a panel sheet with a thin metallic sheet secured between enclosing layers of fibrous material.

In the drawings, Figure 1 is a perspective view of a portion of the panel sheeting with a portion of the outer fibrous layer broken away showing the centrally located metallic plate.

Figure 2 is a similar view to Figure 1 showing a modified form of pierced metallic plate.

Figure 3 is a view of a further modification of reinforcing showing it in the form of a sheet of metallic mesh.

In the manufacture of many commodities, such as trunks, cabinets, etc., and in the building of partitions where it is desirable to use a thin panel sheeting, it is advantageous to use a laminated wood sheeting owing to its lightness but it has been found in actual practice that a panel sheeting built up in this manner has a tendency to warp, crack and go out of shape and presents an unsightly appearance and it is not sufficiently strong to meet certain requirements.

It is my desire to overcome this undesirable condition and to accomplish this end I form a panel sheet 1 which consists of two or more thin fibrous sheets 2 preferably of wood, and a metallic sheet 3

inserted between and firmly secured to said sheets 2. The metallic sheet 3 is here shown as preferably pierced from either side to form raised sharp edged projections 4 extending from either surface. The sheet 3 either pierced or flat is coated with an adhesive material and placed between the sheets 2 and the whole is then pressed together and allowed to dry. If the surface of the sheet 3 is properly coated with the adhesive and joined to the wood sheets under proper conditions a very excellent adhesion is effected. It is found however that the adhesion of the fibrous sheets to the metal plate is greatly enhanced by piercing the same so that the projections enter the fibres.

The indents 5 formed by the piercing of the metallic sheet hold a considerable amount of adhesive material and when the raised portions 4 are pressed into the wood the adhesive material permeates the fibre of the pierced wood and when set produces a panel sheet which is very strong. Composite panels constructed as described will resist extraordinary stresses and will not warp or shrink. A covering 8 of a suitable protective fabric is glued to either or both surfaces of the fibre cover to protect the panel from moisture and wear.

The form of metallic sheet 9 shown in Figure 2 is provided with V-shaped projections 10 punched from the metal which extend from either surface of the metallic sheet in staggered relation and

are adapted to enter the fibre of the wood and securely interlock the wood covering to the metal sheet.

A covering 11 such as canvas may be provided for the protection of the outer surfaces of the panel.

In Figure 3 a further modification of metallic reinforcement is shown in the form of a wire mesh 12 inserted between the layers of wood. The wood is pressed into the mesh of the screen.

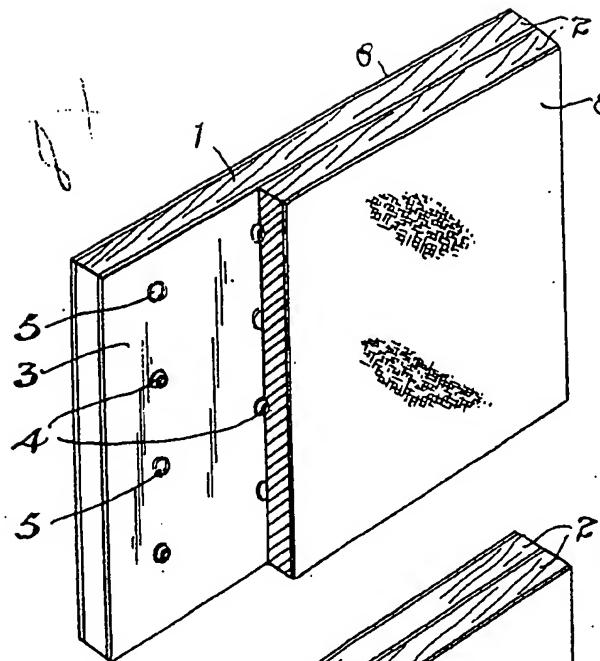
It must be understood that any number of layers of wood and metallic sheets and any form of piercing the metallic sheets may be employed without departing from the nature of this invention.

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WHAT I CLAIM AS MY INVENTION IS:-

1. A panel sheet, comprising layers of fibrous material, and a unitary reinforcing metallic sheet coextensive with and secured between said fibrous layers.
2. A panel sheet, comprising layers of fibrous material, and a metallic sheet secured and interlocked between said layers.
3. A panel sheet, comprising layers of fibrous material, and a pierced metallic sheet secured and interlocked between said layers.
4. A panel sheet, comprising layers of fibrous material, and a metallic sheet having projections on either surface secured between and interlocking with said fibrous layers.
5. A panel sheet, comprising layers of fibrous material, and a thin metallic sheet pierced to form sharp projections on either surface and coated with an adhesive material and pressed between said layers of fibrous material.
6. A panel sheet, comprising layers of wood having a covering on one surface and an adhesive material on the other, and a thin metallic sheet pierced to form sharp projections on either surface, said metallic sheet being coated with an adhesive material and pressed between said layers of wood.



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Fig. 1.

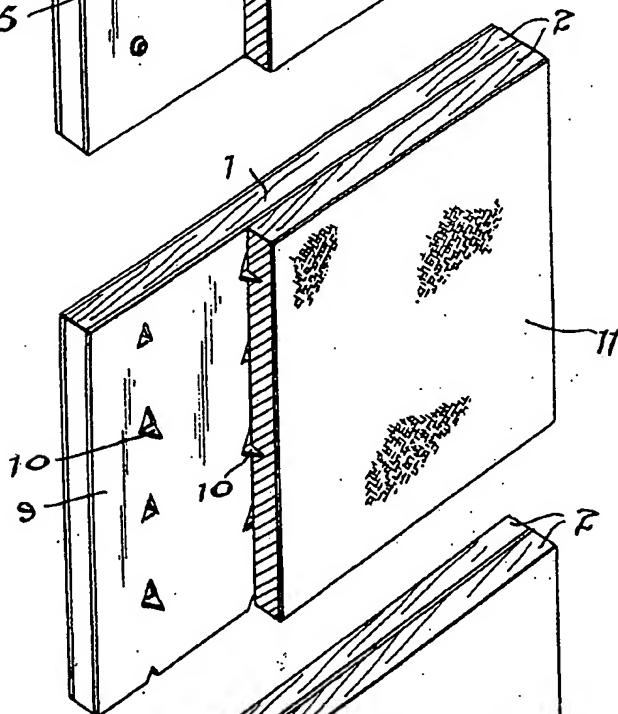


Fig. 2.

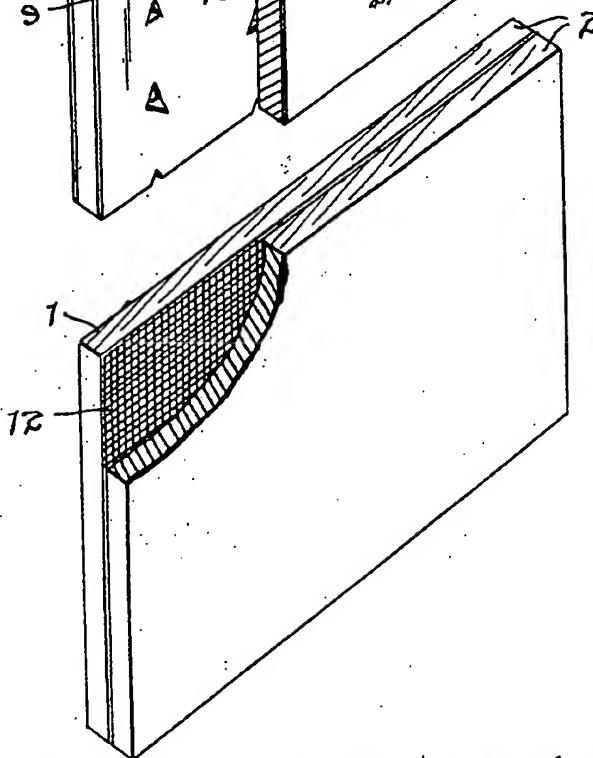


Fig. 3.

Certified to be the Drawings referred to in the Specification hereunto annexed.
Applicant,
Gulphred G. B. Dailey
by H. J. S. Dennison, Esq.

Toronto, Jan 12th 1926.